

What is claimed is:

1. A high-density microarray comprising: a solid support and a modified biological molecule wherein said molecule is immobilized about said solid support in orderly discrete spots.  
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2. The high-density microarray of claim 1 wherein said solid support is an inert material.
- 10 3. The high-density microarray of claim 2 wherein said solid support is selected from the group consisting of glass, metal, or plastic.
4. The high-density microarray of claim 1 wherein said molecule is selected from the group consisting of DNA, RNA, peptides, proteins, saccharides, polysaccharides, and lipids.  
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5. The high-density microarray of claim 1 wherein said discrete spots are about 50 microns in diameter.
- 20 6. A high-density microarray comprising: the modified biological molecule of claim 1; and a solid support upon which said plurality of closely spaced samples of said biological samples are placed.
- 25 7. A method for immobilizing a biological molecule to a solid support comprising: reacting a biological molecule to form a derivatized biological molecule, and reacting said derivatized molecule with said solid support.